GRUMMAN plane news

Unveil plans to build new Gulfstream

Earlier this month, Grumman announced plans to build its next generation of corporate business jets — The Gulfstream III, a longer range, more comfortable improvement to the Gulfstream II.

An initial design for the new executive transport was announced in November 1976, but development was suspended when cost projections showed that it would price itself out of the market.

Immediately, Grumman American and Grumman Aerospace began formulating a new design that would incorporate the most important features of the original design — at reduced a development cost and sales price. As a result of that joint effort, Grumman announced on April 3 that a new G-III design has completed wind-tunnel testing, and fabrication of the prototype G-III is slated to start in the second quarter of 1978. First flight will be the fall of 1979 at Grumman American's plant in Savannah. Production deliveries will begin in the spring of 1980.

Engineering expertise

Along with several Gulfstream subcontractors, the two Grumman subsidiaries are now transforming the new G-III from the drawing boards to the production line. Larry Mead, Grumman Aerospace Senior Vice President-Departmental Operations, is directing a G-III team comprised of people from both GAC and GAAC. Deputy directors are GAAC Senior Vice President Al Lemlein, and Bill Fehrs of Grumman Aerospace. On this project, Mead reports to Grumman Corporation President Joe Gavin.

At present there are close to 170 people working on the G-III. A large majority are Grumman Aerospace vehicle and manufacturing engineers. "In a design-to-cost project such as this, we are fortunate to have so many engineers who were involved in the original design of the Gulfstream II," says Mead. "Their familiarity with the G-II design has saved both time and money when incorporating the modifications to the basic G-II airframe."

From the beginning, engineers have worked closely with GAAC marketing people. "They tell us what the customer will look for in executive jets in the 1980's and beyond, and we set out to give them the most for their money," comments Mead. "The results so far have surpassed our original projections."

Automatic flight guidance and control systems, avionics, and weather-radar equipment will also be factory-installed.

"The current modifications to the Gulfstream II wing configuration consist of a three-foot extension of each wing, addition of winglets and extension of the wing chord to accommodate additional fuel as well as improving the efficiency of the basic airfoil (surface) section," says Mead.

"At present, the G-II is basically a transcontinental aircraft," points out Mead. "This new configuration transforms the Gulfstream into a true inter-continental corporate jet — with a flight range of 4,045 nautical miles compared to the G-II's 3,375."

In addition, these modifications will enable the new Grumman executive jet transport to travel at a long-range cruise speed of Mach .775 at an altitude of 45,000 feet. Today's G-II flies at Mach .75 at the maximum operating altitude of 43,000 feet.

A two-foot slug has also been added to the fuselage to provide more usable space and outfitting flexibility in the passenger cabin. Other improvements include a new wrap-around windshield, an extended nose to house the radar antenna, and improved crew accommodations.

New engineering tools

Keeping the cost down is the name of the game and, to date, the score is in Grumman's favor, says Mead. He attributes this trend in part to the use of GEMS (Grumman Engineering Manufacturing System).

With this computer system, an engineer actually designs components and assemblies on the cathode ray tube, using a light pen function and typewriter keyboard to produce the latest Gulfstream configurations. A tape from the GEMS system can then be run through an automatic drawing machine, and the information fed directly to tooling and manufacturing departments can substantially reduce the time to produce drawings, and it also enables the tool designers to produce tools and machining tapes.

(Continued on page 4)

people

Grummanites Nisi Coleman and Harold Johnson were recently honored at the 1978 Harlem Branch YMCA Salute to Black Achievers in Industry.

Coleman, a project manager of Resources and Planning in Plant 25, and Johnson, manager of Configuration Data Management in Plant 43, were among 158 blacks applauded for their business achievements at the Y's awards dinner, held at the New York Hilton Hotel. All of the individuals were nominated by their companies for the award. Nisi and Harold were selected by Jean Esquerre, a member of Grumman Aerospace's Board of Directors and co-director of Opportunity and Development Department.

Award winners. *Nisi Coleman and Harold Johnson recently received awards at the Harlem Branch YMCA's Salute to Black Achievers. (Photo by Jim Wagner)*

Helping hand

Like the people he's trying to help, Bill Penza knows what it's like to learn a new job. For the past nine months, Bill, a Calverton Flight Test Instrumentation engineer, has been Grumman's loaned executive to the Long Island Metro of the National Alliance of Businessmen (NAB), an organization that helps find jobs for veterans, unskilled persons, ex-offenders and the handicapped.

Every year, to give tangible support to NAB, several local employers lend an executive who becomes part of NAB's all-volunteer staff for that year. Grumman has participated in this way since the inception of the program in 1969.

"Basically," says Bill, "what we do is knock on the door of local businesses and sell them on the idea of hiring the vet, or a handicapped individual, an ex-offender, or members of other disadvantaged groups.

"NAB acts as a catalyst," Bill says. "NAB secures the jobs from the private sector, the government finds the people to fill them, and industry trains the workers. In many cases, funds are available from the U.S. Department of Labor to help employers meet the extra costs involved in training workers who would have been rejected under conventional hiring programs."

Bill is presently selling President Carter's Help Through Industrial Retraining and Employment (HIRE) project to Long Island's top corporate leaders. The HIRE program enables a worker to learn a new skill, benefitting the firm that provides it, while the government pays for as much as one half the training cost.

Bill reports that the Long Island Metro is doing rather well in the HIRE program. "Since November, we've developed 329

Bill Penza

jobs — and we have about 350 more that we're negotiating for right now. Over the next two months, we'll be in negotiation for about 700 jobs.

"The cost of unemployment to society is far greater than the cost of training," Bill says. "Productive workers contribute to the economy. My personal observation from this tour of duty is that most people want to work, but do not have skills that are in demand now. If industry on Long Island is to survive, we must start training people for those skills today."

New posts

Among those who recently received changes in assignments were: CORPORATE QUALITY AND SAFETY OPERATIONS — Arthur Lorelli, supervisor, Quality Engineering, Pl. 35; BETHPAGE OPERATIONS — Ralph Classen, group leader, Stockrooms; Anthony Natale, Fuse. Fwd. Sub. and Maj.; James Litterello, Sub-Assy. Maj., All of Pl. 1, Major Assembly; and John Grosskurth, who, in addition to his present duties, will be responsible for the plant managers operations, Pl. 36; PRODUCT DEVELOPMENT OPERATIONS CENTER — James Gillis, manager, Fabrication, Assembly and Check-out Operations, located in Pl. 5; PROGRAM MANAGEMENT — Joseph DeSimone, Development; and Robert McGuckin, Operations, both program manager; Joseph Henshall, Fleet Readiness; and Philip Biancone, Program Administration, both manager; Gary Stone, Iran; and Frank Wagner, Development, both appointed to assistant program manager; DEPARTMENTAL OPERATIONS — Jack Patton has been appointed as staff assistant to Larry Mead; in the Software Systems Department Robert Sanders, Software Systems Analysis and Design; Martin Lewis, System Software Architecture and Design, both section head; William Pallack, Software Computing Systems

Auction on tap

If you've been looking for a good deal on a used fork lift or an oscilloscope, here's your big chance. Grumman will be holding its annual surplus auction on Saturday, May 6, at 9 a.m. in Plant 27 on Washington Ave. in Wyandanch.

The auction, open to the public, will feature office equipment (desks, chairs, typewriters, adding machines, etc.); shop shelving, work benches, lockers; electrical equipment (switches, panels, motors, connectors, fluorescent light fixtures); plumbing equipment; vehicles (station wagons, trailers, trucks, TD-14 dozer with blade, mini-buses); aluminum canoes and boats; drill presses, band saws, sanders; electronic and mechanical test and measuring equipment; air filtering and refrigeration equipment, and much, much more.

Personal checks will be accepted; registration and inspection starts at 7 a.m.

obituaries

JOHN A MALICH of Insp. Mech., Pl. 3, died April 5 at the age of 54. He had been with the company since 1963 and resided at 806 Prescott Pl., W. Babylon.

Personals

I wish to thank Grumman and the many friends of Mel Brown for their kindnesses and expressions of sympathy. I have donated your rememberance check, in Mel's name, to Cancer Care. Mrs. Melvin Brown

I wish to thank all my friends and co-workers for the many cards, flowers, and expressions of well-wishes I received during my recent illness. Jan Reichelt

We wish to convey our thanks and deep appreciation to Ray's friends and co-workers for their sympathy and thoughtful concern over our recent loss. Mrs. Ray Fenske and family

I would like to extend my heartfelt thanks to all my friends and co-workers for their kind expressions of sympathy during my recent loss. Robert J. Wood

My family and I wish to express our sincere appreciation for the kindness and sympathy offered by friends in the Powerplant and Advanced Aircraft Systems groups over the recent loss of my father. James L. Ciccarello

I wish to express my sincere thanks and appreciation to my Grumman friends on the occasion of my mother's death for the many kind expressions of sympathy extended to myself and my family. Frank Gabreski

A sincere and heartfelt thank-you to friends, co-workers, and Exployee Services for kind expressions of sympathy shown during the recent loss of my brother. James A. Green

Sincere thanks to all my friends at Grumman for their support and thoughtfulness during the recent loss of my father, Frank Miller. Charles A. Miller and family

My family and I wish to thank my fellow workers and Employee Services for their thoughtfulness in the recent death of my stepfather, Willy Tiefenbach. Fred Neumann

Vol. 37, No. 6. Bethpage, N.Y., April 28, 1978

Calverton guest. *Colorado's Lieutenant Governor George L. Brown recently toured Grumman's Calverton facility with Al Johnson, Plant 6 manager (L) and Frank Pauly, director of Calverton Engineering (R). (Photo by Gerry Costello)*

Grumman matches donation to private four-year colleges

With today's rising costs, many private colleges and universities are actively soliciting alumni for funds on a regular basis. Many companies across the nation are also trying to encourage alumni giving through matching gifts programs. For instance, Grumman matches an employee's gift — dollar for dollar — up to $1,000 per year.

"Matching a gift doubles a person's contribution and provides needed support to our colleges," says Gus Lanzo, Matching Gifts Program administrator and director of Grumman Aerospace's Career Education and Development department, "In addition, such corporate programs help increase the number of donors."

Gifts are eligible for matching company funds when they are made to a privately endowed college or university by any actively employed member of Grumman Corporation and its subsidiaries. The institution must be a four-year (or higher) degree-granting accredited school.

Contributions can be made to more than one institution at a time (up to $1,000 per-year limit) and you need not be a graduate of the institution. For example, parents can donate to colleges attended by their children even though they are not graduates of that college.

How to apply

After donating a gift, Grummanites can apply for matching funds by sending an official receipt or letter of acknowledgement from the college or university showing the amount and date of the donation to Gus Lanzo, Mail Stop A01-39. The annual accounting period for this program runs from December 1 of the previous year through November 30 of the current year. Any contribution notices submitted after November 30 are carried over to the next year. At the end of the year, the Matching Gifts Program office makes the appropriate distribution of funds to each of the eligible institutions.

For further information about the program, contact Lanzo, Ext. 3748.

GRUMMAN plane news

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Plane News from outside line
516-575-3293

Discount show tix

Discount tickets for *Beatlemania* are now on sale in all Employee Services offices. The Broadway tickets cost $10.80 for orchestra seats for the May 24 show. Make checks payable to: Employee Services.

Time to sign up

The Annual Meeting of Grumman Shareholders is scheduled for 2 p.m. on Thursday, May 18, in Hangar 3, Plant 4. Starting April 18, Bankers Trust Company, Trustee for the Grumman Employee Investment Plan, began mailing members of the Plan proxy statements and confidential cards for voting at the Annual Meeting, says Bob Bradshaw, Grumman Corporation Secretary.

Employees are asked to return the completed cards by May 5 to Bankers Trust Company in the self-addressed, postage-paid envelopes that will accompany the proxy statements.

The Annual Meeting is often the only opportunity to view the company's products for visiting shareholders. Because Grumman shares obtained through the Investment Plan are held in trust for each individual member, being a member in the Plan does not automatically entitle participants to attend the Annual Meeting, says Bradshaw. Only those persons owning shares of record — that is, shares purchased outside the Investment Plan prior to the record date of March 31, 1978, are eligible to attend.

Grumman personnel who own Company shares as of the record date (March 31, 1978) and who wish to attend the meeting should pre-register at any office of Employee Services on any working day before May 5. *(Do not hand in proxy card to ESO. Mail in return envelope provided.)*

Because of limited space at the meeting, shareholders are requested to refrain from inviting their spouses, children or friends to the Annual Meeting.

Set investment plan meeting for May 11

For the third consecutive year, representatives of the Fiduciary Trust Company will meet with interested participants of the Grumman Employee Investment Plan (EIP). All active EIP members are invited. The gathering will meet in the Plant 30 cafeteria at 5 p.m. on Thursday, May 11.

Representing Fiduciary are the company's president Larry Huntington; Hy Upson, equity fund portfolio manager; and Peter Nadosy, fixed income fund portfolio manager.

They will discuss Fiduciary's investment philosophy and examine some of the market indicators that influence their investment decisions.

In addition, the newest EIP investment option — guaranteed income — that was announced earlier this year in PLANE NEWS will be discussed.

During the meeting, attendees may ask questions about the Investment Plan. So a maximum number of inquiries can be answered in the allotted time, the Employee Investment Plan office suggests Grummanites who have certain topics they wish to be discussed fill out the form below, and mail it to: Employee Investment Plan, A03-28.

According to Kay Trestka, administrator for the Plan, the meeting is scheduled to begin at 5 p.m. so that a majority of those wishing to attend could do so on their own time. Persons who find it impossible to attend will be able to follow what occurs at the meeting through a summary printed in PLANE NEWS.

Investment Plan

I'd like to have the following topic discussed: _____

_____

_____

_____

_____

Mail to: A03-28

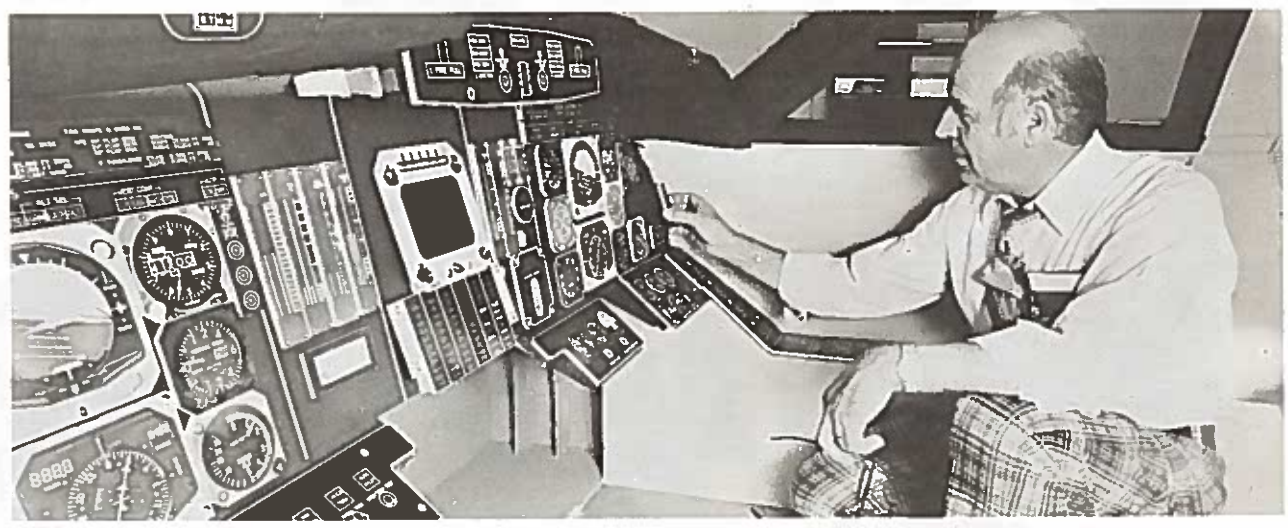
Begin new chapter in Gulfstream story

(Continued from page 1)

Furthermore, the accuracy is enhanced. Approximately 990 drawings are slated to be processed. To data, 110 have been completed and approved.

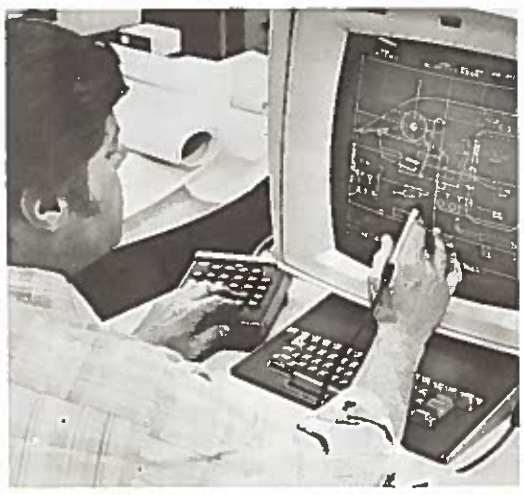
Since major modifications are being made to the wings, Grumman has also been working closely with AVCO, subcontractor for the manufacture of G-II wings who will also assemble the G-III wing. Today tooling fixtures are being assembled in Plant 3; detail parts for the prototype are already being processed in Plant 2.

Though the G-III is still in its infancy, Mead is confident that the Gulfstream's reputation as the "Rolls Royce" of the corporate jets will live on for another generation.

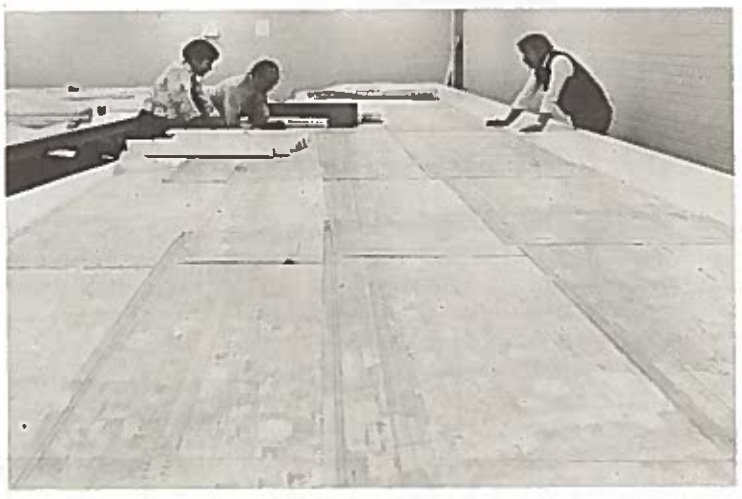


Mock-up. *Charles Glynn of Mechanical Design-Crew Systems checks out full scale mock-up of the new G-III cockpit in Plant 35.*

On the cover. *The front page photograph of the G-III model was originally shown in the 1977 Grumman Annual Report. Designed and photographed by Grumman's advertising agency, Creamer Lois FSR, this artistic color photo appeared as a full two-page spread.*

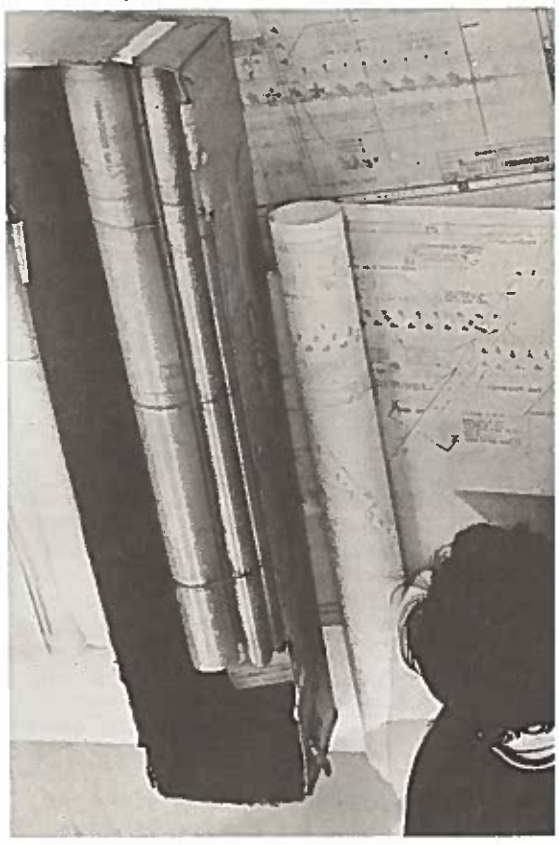


GEMS. *Engineer works on GEMS console in Plant 35.*

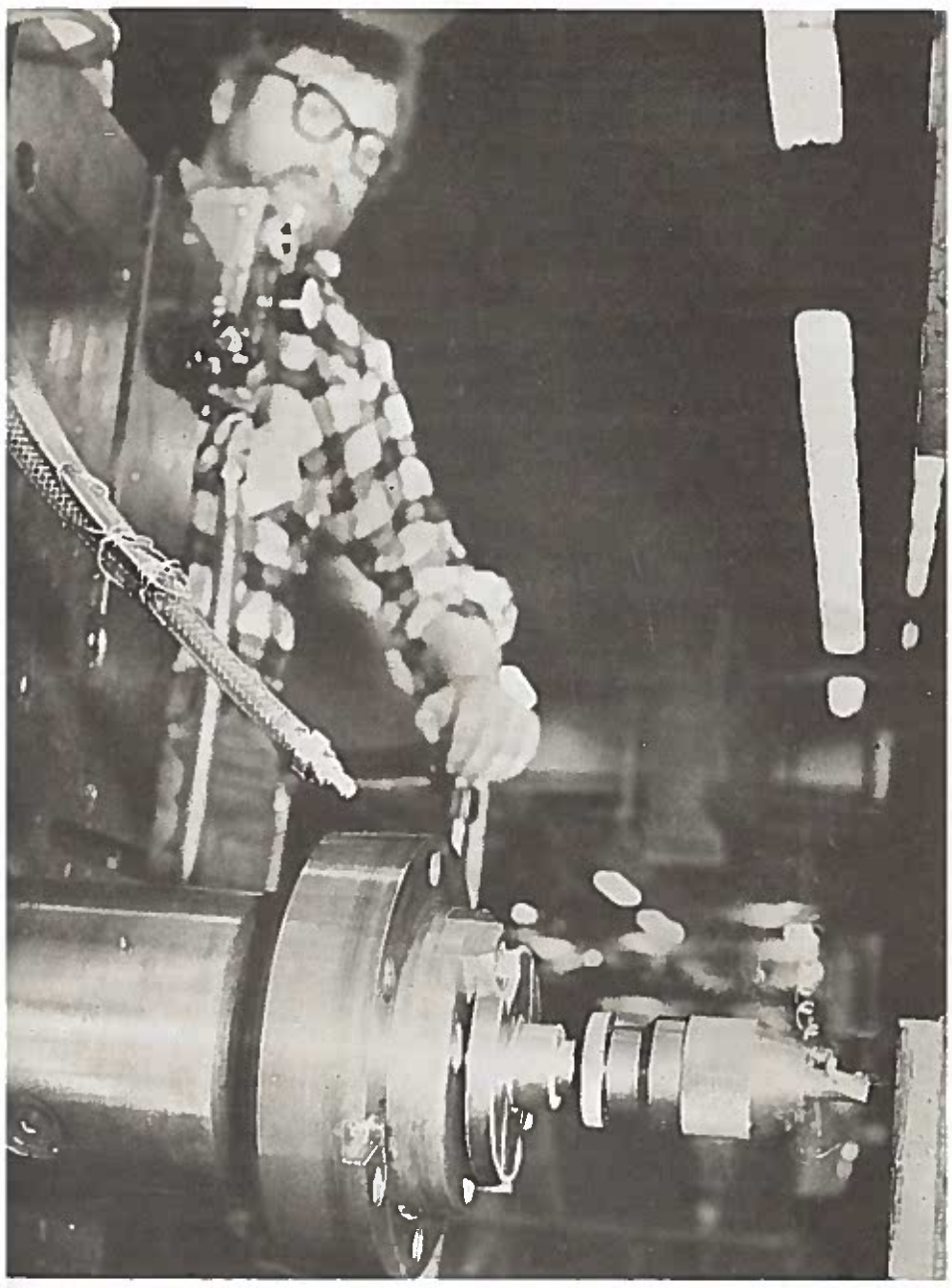


Full view. *Members of the G-III design team check out full scale loftings of the new wing skins.*

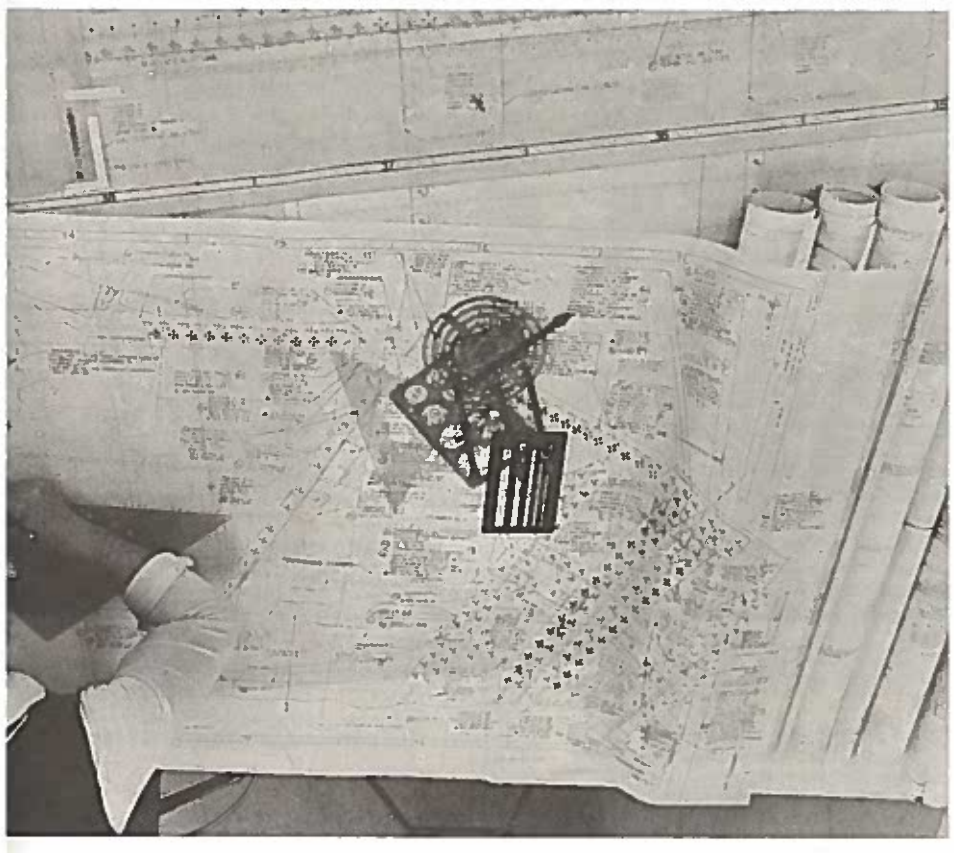
(Photos by Rich Breunig)



G-III team. *As G-III Program Director, Larry Mead (C), Senior Vice President-Departmental Operations, meets frequently with (L to R) Bill Gentzlinger, program manager; George Viteritti, deputy Engineering manager-GAAC; John Strakosch, Engineering manager; Bill Fehrs, deputy program director-Bethpage Operations; Bob Byrnes, Manufacturing manager; and Alex Harrisiadis, Business manager.*



Precision work. *Manufacturing of tooling fixtures for the new Grumman executive transport for the 1980's and beyond recently began in Plant 3.*



Urge caution on phone usage

Space-age electronics may have helped improve the quality of life throughout the United States, but along with those benefits, says Harry Volz, deputy director of Security and Personnel Services, advanced electronic listening equipment is making it more difficult to protect the transmission of vital data.

Volz points out that since Grumman won its first government contract in 1931, security has been every Grummanite's responsibility.

Once there was a time when Grumman's telephones were directly connected to other contractors' and government agencies' telephones through a network of ground wires and switchboards. Those days are gone. Today is the era of microwave communications — a highly efficient system capable of handling a high volume of telephone messages, transmitted over the air waves.

At the present time, these microwave radio trunks of the Bell telephone companies are not capable of being transmitted into code. In other words, this system is vulnerable to simple and straightforward interceptions of the communications.

Tapping telephone conversations is getting simpler. No longer are any connecting wires or "bugs" needed. Instead, modern computer techniques and electronic "listening" equipment make it possible for an underworld organization, blackmailer, terrorist, or foreign power to easily sort through these microwave links and find target conversations.

Around the world

Recent newspaper articles report that foreign intelligence agencies operate numerous radio and telephone intercept stations around the world. Several are located well within our own transmission area, says Volz.

Targets for these agencies are military, scientific, technological and commerical data transmitted via unprotected microwave radio links.

This entire spectrum of unclassified information is a virtual wealth of intelligence for foreign agencies.

The Department of Defense recently sent all its contractors a letter alerting them to this security threat, says Volz.

To combat this threat to our national security effectively, Volz asks fellow Grummanites to follow these guidelines:

- Do not discuss information over the phone before you have carefully considered the security implications of the data.
- Avoid leaving the phone off the cradle when searching for additional information. A telephone left on the desk could inadvertently pick up background conversations in your office.
- Don't use "double talk" over the phone to disguise classified information; trained intelligence analysts will not be deceived.
- Use courier, mail, and other secure message facilities as a primary means of communications when transmitting classified information.

If you have any additional questions about telephone usage as it relates to national security, contact Bob Amott, assistant manager of Security, Ext. 3635.

Hard to imagine it can happen? "Believe me," says Volz, "it does — every day."

Gets new post

Oliver Fix has been appointed general manager of the Irvine, California facility. He reports to Don Imgram, director of Space Programs.

Responsible for all activities and programs at the Plant 71 facility, Fix can be reached by calling (121) 714-751-4046.

Select 1978 Grumman fellows

Six Grummanites and three new engineering graduates will be heading back to school for a masters degree, courtesy of Grumman's Engineering Masters Fellowship Program.

The 1978 fellowship winners are: Robert August, Plant 5; Kenneth Eastman, Plant 14; Robert Hachmann, Plant 7; Stephen Oliver, Plant 5; Roland Janbergs, Plant 35; and Miranda Pavlou, Plant 25. The new grad recipients are: Donald Schlauroff, Howard Barina, and Kenneth Bubeck.

The fellowship program provides individuals who have talent for aerospace hardware design with the time and money needed to attain a masters degree.

Fellows work a minimum of 24 hours a week at Grumman during the school year and 40 hours a week in the summer. They must complete an approved masters program in two years at a local university. They receive full tuition, books, fees, and a yearly stipend of $1,200, plus $600 for each dependent.

service milestones

M.A. Stilwell

R. Costa

R.J. Kopack

G.T. Raynor

35

Donald J. Murphy, Final Assy. (1)
Albert U. Balsari, Prog. Contracts (5)
Mary E. Chisholm, DOD A/C — Prog. Stf. (5)
Walter O. Wilson, Assy. Meth. and Plng. (6)
George W. Simpson, Matl. Cntl. (66)

30

Thomas B. Richardson, Admin. (2)
Edward L. DeMers, Admin. (2)
George S. Furlong, Jig Det. and Sub-Assy. (2)
Werner J. Langhauser, Mfg. Tech. Prod. Serv. (2)
Robert V. Laurita, Conv. Mach. (3)
Alex Polozoff, Spot Weld (3)
Joseph D. Cassese, Prod. Supv. (3)
Charles E. Scheffer, Matl. Coordination (7)
John J. Crochiere, Trans. Office (20)
Edward Jasuta, Config. Data Mgmt. (25)
John Pizzuti, Gen. Commodities (30)
William R. Harris, Gen. Acct. (30)
Anthony A. Fuori, Field Operations Mgt. (35)
Andrew J. Breunig, Ops. Qual. Mgt. (35)
Edward R. Brala, Wing Sub-Assy (36)
John R. VanSant Jr., Insp-Mech. (36)
Alexander Charnay, TS Cust. Trng. Instructor (39)
John E. Meany, Prog. Contracts (77)

25

Mary A. Stilwell, Repro Serv. (1)
Rinaldo Costa, Aerodynamic Des. (5)
Robert J. Kopack, Invent. Plng. and Analy. (30)
Gilbert T. Raynor, Struct. Analy. (35)
Thomas J. Kelly, V.P. — Engg. (35)
Jeanne Olsen, Exec. Secy., Grumman Corp. (HQ)

20

Salvatore A. LoDolce, Maint-Rearrangement (1)
Anthony Minutella, Maj. Assy. (2)
Ernest P. Braun, Fuselage Joining (2)
James V. LaSala, Stockrooms (2)
Robert Lertora, Jigs and Fixtures (2)
Jacob D. Van Cuilenburg, Mach. Shop (2)
Peter D. Mirabella, Form Block (2)
Sylvester J. Damiani, Cent. Setup Area (2)
Charles F. Koop, Mach. Op. — Tech. Serv. (3)
John Wojtyna, Maint-Rearrangement (3)
Arthur Lemp, Elect. Equip. Des. (4)
William W. Kennard Jr., Conv. Mach. (5)
Richard C. Bonelli, ILS Elect. Pkg. (5)
Ethel M. LoDolce, Medical (5)
Frank R. Elliot, Des. Engg., Prog. Engg. (5)
George E. Morris, Fluids (6)
Charles H. Rodenburg, Indust. Engg. (6)
John G. Devitt, Veh. Lab. Mgmt. (8)
George F. Collins, Repro. Serv. (30)
Hyman R. Garnet, Matls. and Struct. Mech. (35)
James J. Rogers, Standards (35)
Gertrude A. Haugwitz, Sect. Admin. (35)
Paul J. Marcone, ILS Elect. Pkg. (40)
Daniel C. Postupack, Prog. Mgmt. — Marine (40)
Helma T. Connor, Plant M/S (43)
Victor H. Martorana, Mgmt. and Stf. (56)
Robert B. Soave, Environ. Cntl. Des. (72)
William B. Murray, A/C Sys. Serv. (80)
Reynolds P. Hall, Production (88)
William J. Evans, Space Prog. Qual. Mgt. Hist. (89)
Robert J. Nolan, Paymaster (HQ Bldg.)

15

Voorhees W. Lehrer, Fuse. Fwd. Sub. and Maj. (1)
Alfred E. Dague, Stockrooms (1)
Biaso Diccianni, ILS Resource Cntl. (1)
John E. Nau, ILS Sys. Implementation (1)
Carl J. Hoelzl, ILS RF/Cntls. (1)
Salvador F. D'Esposito, ILS RF/Cntls. (1)
Richard K. Lewis, ILS RF/Cntls. (1)
Maurice P. Curran, ILS Digital Engg. (1)
Frank E. Catalano, Tech. Reqt. (1)
Alfred M. Colella, Maint-Facl. (1)
William P. Carving, Repro Serv. (1)
Richard G. Schneider, Repro Serv. (1)
Vivian M. Geer, Repro Serv. (1)
Jane Marino, Repro Serv. (1)
Helen R. Aragonesi, Repro Serv. (1)
John E. Dennihy, ILS Estimating (1)
Ethel W. Broughton, Supply Asset Cntl. (1)
Joseph Lamagno, Press (2)
James J. Doran, Small Parts Fab. (2)
Anthony L. Cipriani, Prototype (2)
James E. Dugger, Controls (2)
Eric O. Ohman, Steel Parts Assy. (2)
William Seda, Sub-Assy. Major (2)
Samuel W. Bryant, Ctr. Sect-Sub Assy. (2)
Byron E. Ames, Hydraulics (2)
Joseph Sansone, Hydraulics (2)
Eugene A. Finck, Stress Relieve & Hot Form (2)
Michael Slome, Prod-Cntl-Parts (2)
Mary M. Hansen, Mfg. Admin/Business Mgt. Ms.
Dorothy Kuppler, Product Planning (2)
Frank J. Weber, Stockrooms (2)
Burton F. Seligman, Mfg. Factory Planning (2)
Hugo Rella, Cntl. Storage & Retrieval (2)
John A. Wimbish, Cntl. Storage & Retrieval (2)
Robert J. Ragusa, Mfg. Sched. (2)
Peter H. Beckwith, Trans-Operations (2)
Willie H. James, Maint-Facil. Equip. & Gen. (2)
Helen L. Carney, Food Service (2)
William F. Gargiulo, Food Service (2)
Albert G. Guecia, Insp-Tooling (2)
Francis J. Raucci, Conv. Mach. (3)
John A. Cerra, Details (3)
Edward G. Malone, Spot Weld. (3)
Frank F. Blachian, Assemblies (3)
Jacob K. Benner, Assemblies (3)
Charles J. Beers, Assemblies (3)
Ronald A. Sottung, Assemblies (3)
William L. Simpson, Prod. Sup. (3)
Forrest E. White Jr., Mach. Oper-Tech. Serv. (3)
John J. Hulse, Mach. Oper-Parts Ctl. (3)
Harold W. Alston, Trans-Operations (3)
John F. Miller, Maint-Rearrangement (3)
Joseph L. Dandrea, Maint-Rearrangement (3)
James Dolvin, Maint-Facil. Equip. & Gen. (3)
James D. Schnaderbeck, Flt. Avionics (4)
Julius Rodgers, Stockrooms (4)
Fred J. DeLucia, Corp. Instr. Flt. Data (4)
Stanley A. Winnicki, Wood Shop (5)
Caroline B. Aubrey, Support Equip. Prod. (5)
Andrew Ramotnik, Support Equip. Prod. (5)
John F. Glaser Jr., Environmental Ctrl. & Test (5)
James D. Gillis, manager-Fabric., Assy./ Check-out Ops. (5)
Gordon T. Woodruff, ILS Program Controls Mgt. (5)
Anna F. Scotto, Repro Servs (5)
Ernest L. Spence, Structural Test (5)
Jerome Kirsch, Elect. Equip. Design (5)
Thomas F. Doherty, Ops. Analysis (5)
Matthew J. Ferguson, Ops. Analysis (5)
Richard A. Holmes Jr., Ops. Mgt/Staff (5)
Robert A. Zummo, Cust. Rqmnts. (5)
Leo J. Fink, Prog. Planning Cntrl. & Budg. (5)
Robert E. Richter, Corp. Planning Cntrl. & Budg. (5)
Norbert E. Osiecki, Config. Data Mgt. (5)
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Haig A. Manoogian, Public Affairs (5)
Byron B. Terwilliger, Trans-Ops. (6)
Frederick H. Miller Jr., Maint-Rearrangement (6)
Nicholas R. DelPiano, Maint-Rearrangement (6)
Eugene Lahti, Plant Protection (6)
Thomas A. Boles Jr., Fluids (6)
John B. Fleischman Sr., Elec. Install. (6)
Eugene G. Morton, Elec. Install. (6)
Richard O. Wallner, Elec. Install. (6)
Richard T. Adams, Elec. Install. (6)
Ronald H. Fagan, Elec. Install. (6)
Edward J. Lawlor, Structures (6)
George G. Boyd, Support (6)
Joseph A. Parisi, Support (6)
Alfred E. Harris III, Prod. Deputy & station foreman (6)
Eilo M. Long, Inventory Cntl. (6)
William F. Dwyer, Material Coordination (6)
Paul C. Stein, Manpower Budg. & Cost Stat. (6)
Dominick Commisso, Repair Cntl. (6)
Edward Miluk, Meas. Standards (6)
John S. Ryan, Meas. Standards (6)
Millard L. Sturm, Final Assy. Insp. (6)
Ronald J. D'Amico, Final Assy. Insp. (6)
John C. Yeatman Jr., Final Assy. Insp. (6)

T.J. Kelly

J. Olsen

Edward A. Leonard, Final Assy. Insp. (6)
Carlos E. Martinez, Quality Engg. (6)
Joseph Weiss, Calverton Config. Data (6)
Anthony S. Lawrence, Aircraft Programs (7)
Vincent F. Thomas Jr., Instr. Syst. (7)
George D. Daly, Instr. Ops. & Projs. (7)
Richard D. Metz, Structures (7)
William J. Schneider, Material Coordination (7)
Joseph L. LeBlanc, Propl. & Fluid Syst. Prd. Supp. (7)
Michael E. Spencer, Rf. Equip. Prod. Supp. (7)
Joseph J. Gillin, Electronic Syst. Prod. (7)
William A. Stegman, Proj. Engg-Electronic (7)
Louis W. Puccio, QC Lab. (10)
Hardy L. Bailey, Maint-Rearrangement (12)
Edward R. Ruppel, Maint-Rearrangement (12)
Ernest J. Chombok, Maint-Rearrangement (12)
Frank C. Bartolotta, Maint-Rearrangement (12)
Santo J. Azzarello, Metal & Welding Engag. (12)
Charles Abrams, Meas. Stnd. Lab. & Log. Ops. (12)
Frank W. Riegert, Maint-Rearrangement (14)
Joseph G. Wahl Jr., Lab Mgmt. & Tech. (14)
Rose LoCicero, Distrib. Services (15)
Raymond J. Yarsinske, ILS Tech. Writing (15)
James N. Heasley, ILS Tech. Writing (15)
Leslie Dowling, ILS Tech. Illus. (15)
Dorothy C. Whelan, ILS Pubs. Control (15)
Joseph Laskowski, Central Shipping Control (17)
Alfred Williamson, Assy. Meth. & Planning (25)
William M. Kelly, PPO-F-14 (25)
Emilio S. Leto, PPO-E-2
Malcolm A. Jardine, Subcontractor Surveillance (25)
Josef C. Wittenberg, Fluid Power/Pyrotechnics (25)
Alphonsus C. Apuzzo, Chem. Engg. & Process Stand. (25)
Michael Solenick, Syst. Integ. (25)
James M. Dante, Computer Interface (25)
John A. Rego, Prog. Contracts (25)
William J. Resler, Prog. Contracts (25)
George R. Van Ness Jr., Config. Data Mgmt. (25)
Robert M. Coughlin, Config. Data Mgmt. (25)
Kathleen A. Hauss, Config. Data Mgmt. (25)
Robert J. Gundersen, Research (26)
Joseph Reichman, Materials & Struct.

(Continued on page 8)

For second year in a row, women keglers win L.I. title

The Grumman women's varsity entered the 35th annual L.I. Industrial Bowling tourney as defending champs. From the beginning, the other company teams knew that nothing would stand between Bella Cherry, Arlene Schwemmer, Evelyn Gerdon and Maureen Gallagher and their triumphant trek into the 1978 winner's circle.

Early lead

On opening night, Schwemmer and Gallagher led the way with four game series of 203-725 and 202-203-725, respectively. The Grumman women were ahead of the pack by 111 pins; no one ever caught up.

On the second evening, Schwemmer again set the pace with a 711 series; Gerdon rolled 210-694; Cherry, 201-684; and Gallagher, 676. Their lead opened up to 313 pins over second-place Nassau County.

The contest was just about sewn up by the final evening. Grumman was on its way to its 18th championship title. The crowd's attention shifted to the tourney's top bowler competition between Schwemmer and Nassau County's Donna Schrimpe.

But Arlene is not one for individual honors. Comments teammate Bella, "Arlene kept concentrating on the entire team's pinfall that final round . . . She always prefers to share the spotlight."

So while Schwemmer helped widen Grumman's lead in the final stretch, Schrimpe in the adjacent alley was struggling to hold onto her 33 pin lead. In the final game, Arlene had cut her lead to 18 pins and the Grumman kegler happily stepped onto center stage to receive the second place bowler award.

To thunderous applause, Arlene joined her teammates to accept their 18th L.I. championship trophy. In the quest for No. 1, the women had broken the tourney record they set last year by rolling a record pinfall of 8,431. Bella Cherry was chosen the team's Most Valuable Player.

1978 champs. *Members of the Grumman varsity bowling team show off their L.I. Industrial tourney trophy: (L to R) standing — Meg Sheridan, Maureen Gallagher, Bella Cherry, Evelyn Gerdon; kneeling — Pat Ogilvie and Arlene Schwemmer.*

calendar

American Society for Metals: joint meeting with SAMPE; Tues., May 9, Antun's, Hicksville, complimentary cocktail hour 5:30 p.m., dinner 6:30 p.m., presentation 8:00 p.m.; local chapter; father/son and daughter night, student night; guest speaker: Chuck Sewell, GAC — "Test Pilot Qualification; Job Description/Experiences;" all welcome. J. Beaudoin, x3945.

American Society of Mechanical Engineers: Thurs., May 11, LILCO, 175 E. Old Country Rd., Hicksville, room 210, 7:30 p.m.; executive committee meeting; also, ASME dinner-dance Sat., May 27, Garden City Casino, guest speaker: Theodore M. Black, chancellor, N.Y.S. Board of Regents; for reservations: G. Swainson, 741-0945.

ASHRAE: Tues., May 9, LILCO, Rte 25A, Shoreham; L.I. chapter; field trip to LILCO Nuclear Shoreham Plant; preregistration for guests. P. Coiro, 484-1020.

GACE Flying Club: Fri., May 12, 5 p.m., Pl. 28 auditorium; regular monthly membership meeting; first film in a series of six on "History of Flight"; all welcome. R. Reisch, x3286.

Grumman Scuba Divers Club: Wed., May 10, 7 p.m., Chateau Restaurant; discussion of proposed dives; all welcome. A. Andreiev, x5540.

Society of Logistics Engineers: Wed., May 10, annual symposium ($17.50 pp), Villa Victor, Syosset, guest speaker: Mr. E.H. Manuel, group general manager, Defense Space Group FIT Corp., Clifton, N.J. — "Logistics Impact in the 80's"; guests welcome. C. Frattini, 752-6089.

Stamp Club: first, second, third Wed., each month, 4:45 p.m., Pl. 35 cafe. S. Hoops, x3926.

GAA drive -- smashing success

This year's Grumman Athletic Association's membership drive proved that there are a lot of good sports at Grumman. For the second year in-a-row, Grummanites rallied to a new GAA participation tally of 92 percent.

On Friday, April 14, many of the people who spearheaded the successful drives at the individual plants were on hand to assist the GAA staff in the annual drawing in the Plant 30 cafeteria.

Everyone had their turn picking the names of lucky GAA contributors — not only for the 15 $100 U.S. Savings Bonds up for grabs, but for the 50 sets of Grumman glasses.

At the drawing, Mike Cherry, who headed the GAA drive this year, commended all those who passed the buck to GAA. "It would not be possible if it were not for the time and energy provided by our volunteers in each plant, though," commented Cherry. "Thanks to everyone . . . it's another pennant year for GAA."

Lucky winners

Winners of the $100 U.S. Savings Bonds are:

Richard Brooks (Pl. 35); Michele Pinkney (94); Katherine Rash (5); Eva Rhodes (12); Arthur Bolomey (6); Nicholas Dannenhoffer (5); Berger Peterson (35); Geraldine Nicklas (4); Francis Berardino (5); Albert Morrision (5); Milton Jaraslow (7); Joseph Diaz (2); Godfrey Mattson (40); J.F. Collins (55); and Michaelangelo Calderone (1).

The 50 winners of Grumman glass sets are:

Plant 1 — Robert Salvesen, Francis Zarodkiewicz, Lawrence Vitale, Roger Longenecker; *Plant 2* — Ausilio Marasco, Frank Celia, William Boese, Eric Pitfick; *Plant 3* — John Triolo Jr., Stanley Ferraiolo, Harry Diener, Joseph Cavola; *Pl. 5* — John DeGaetano, Anthony Menna; *Pl. 6* — Ed Matthews Jr., Neal Edward Jr.; *Pl. 7* — Fred Schaefer, Rolf Gaeding; *Pl. 8* — William Noonan; *Pl. 12* — Stephen Hoops; *Pl. 17* — Richard Kordecki; *Pl. 19* — George Capua; *Pl. 21* — Donna Zambito; *Pl. 24* — James Callen; *Pl. 25* — Thomas Swearingen; *Pl. 30* — Fran Mogle, Quentin Mohr, Bill Palmeri;

Pl. 35 — Roland Janbergs, John Ricciardi, Charles Kusche Jr., William Zucker, Gunter Georgi, Jean Conway; *Pl. 36* — Anthony Scipione, Harold Dwyer; *Pl. 40* — Peter Sinkowsky; *Pl. 43* — John Kaull, Melvin R. Hennen, Robert Koppenhoefer; *Pl. 44* — Ernest Johnson; *Pl. 55* — James Mongin; *Pl. 56* — Arthur Cline; *Pl. 77* — Patricia Bonds, Domingo Grave, Kathleen Nabeack, *Pl. 88* — Otto Lanzarone; *Pl. 89* — Ellen Duffy; *Pl. 94* — Rolfe Feser; *HQ* — Paul West.

Perfecto!

These departments hit the 100 percent mark:

Pl. 1 — Qual. Ops.; Ops. Qual. Tool Insp.; F-14 Ground Supp.; Caf.; Dist. Serv.

Pl. 2 — Qual. Ops.; Ops. Qual. Tool Insp.; Indust. Safety & Hygiene; Liaison Engg.; Food Serv. & Warehouse; N. Buff.; Dist. Serv.; Repro. Serv.; Mtl. Mgmt.; Mfg. Mgmt. & Staff; Form Block; CQSO Lab.

Pl. 3 — Mach. Ops., Bus. Office; Mach. Ops, Mgmt. & Staff; Qual. Ops.; Ops. Qual. Tool Insp.; Caf. & Vending; Ops. Qual. Tech. Serv.; Dist. Serv.; CQSO Lab.

Pl. 14 — Maint. Adm.; Maint. Rearrang.; Maint. Facil/Equip. & Gen.

Pl. 15 — Buff.; Dist. Serv.; Repro. Serv.; ILS Tech. Writing.

Pl. 17 — Maint/Facil. Equip. & Gen.

Pl. 24 — Dist. Serv.

Pl. 25 — E-2 Contracts; Shuttle Wing Contracts; B-1 Contracts; CASO Qual. Engg.; Op. Qual. E2/C2 Prog.; Op. Qual. Shuttle Wing Prog.; Op. Qual. F-14 Prog.; Prog. Proc/F-14; Prog. Proc/Space & Dev.; Fin. Contrl. Prog.; F-14 Contracts; Foreign Military Sales Contracts; Repro. Serv.; Dist. Serv.; Q.C. Supplier.

Pl. 4 — Qual. Ops.; Liaison Engg.; Buff.; Dist. Serv.

Pl. 5 — Engg. Test Op.; Proj. Engg.; Engg. Test Op. Mgmt & Staff; Struct/Mach/Envir. Test Staff; Struct. Test; Mech/Fluid Syst. Test; Envir. Dyn. Test; Facil. & Lab. Supp.; Adv. Acft. Contracts; Marine Contracts; Energy Contracts; Tokamak Contracts; Eco/Financial Anal. Contracts; Billings, Documents & Records Contracts; Adv. Dev. Prog. Contracts; Resources Mgmt. & Staff; Wash. Office; Pub. Affairs; Caf.; Maint. Adm.; Maint. Rearrang.; Maint. Facil. Equip. & Gen.; P.D.C. Prog.; Computer Vision; Bus. Anal.; Engg. Test Op.; Special Products; Opport. Dev. Staff.

Pl. 6, 7, 8 — M&L; Warehouse; Instru. Shop; Supp. Dept.; Elec.; Prod. Mgmt. & Staff; Prod. Mgmt.; MCC; Ops. Mgmt. & Staff; Methods; Plt. Protect.; Paint; Hyd. Sub.; Mfg.; Dir. Engg.; Vehicle Tech.; Elec. Tech.; Supp. Engg.; Lab. Oper. Insp.; Qual. Engg.; Final Assy. Insp.; Tech. Serv.; QC Mgmt. & Admin.; Flt. Op. Insp.; REC/Ship. Insp.; LAB Op. Insp.; Maint. Adm.; Repro. Serv.;

Pl. 10 — CQSO Qual. Engg.; Hydrofoil Prog.; CQSO Lab.

Pl. 11 — Maint/Facil. Equip. & Gen.; Ops. Qual. Tool Insp.

Pl. 12 — Maint. Adm.; Maint. Rearrang.; Maint/Facil. Equip. & Gen.;

(Continued on page 8)

Invite tennis buffs to join tournaments

Judging from the record turnout at last year's GAA tennis tournaments, tennis fever has reached epidemic proportions at Grumman.

Men's and women's singles division tourneys begin Monday, May 29; that includes the satellite tourneys at Calverton. Doubles play starts Monday, June 19; mixed doubles play the week of July 10.

Last year in an effort to equalize competitive play, GAA split the men's division. All varsity players and those who reached the fourth round of tourney play during the past three years will enter the "A" division. All others will compete in the "B" division unless they elect to play on the "A" level. This applies only to the men's singles and doubles contests held in the Bethpage area.

If you are also entering the mixed doubles tourney, be sure that your partner submits his/her own form if the player wishes to enter singles and doubles tournaments. No entries will be accepted after May 5. The mixed doubles tourney is open for all Grummanites and their family members only.

According to Mike Cherry, GAA tourney director, contestants must arrange for courts and pay court fees. Players must complete their matches within the week's designated. Those not complying with the established match deadlines will forfeit the match.

Tennis tourney

Singles ☐ A div. ☐ B. div. ☐ Doubles ☐ Mixed Doubles ☐

Your name.....M/S.....Ext.....

Doubles partner

Will he/she be playing in singles? Yes ☐ No ☐

Name.....M/S.....Ext.....

Mixed doubles

Male partner.....M/S.....Ext.....

Female partner.....M/S.....Ext.....

Mail to: A-01 no later than May 5

GAA

(Continued from page 7)

Pl. 30 — Repro. Serv.; Dist. Serv.; Commun. Serv. Mgmt. & Staff; Telephone Serv.; Mtl. Mgmt.

Pl. 31 — CQSO Qual. Engg.

Pl. 35 — Caf.; Op. Qual/Spec. Prog.; Op. Qual/GIIA Prog.; Op. Qual/Mgmt. & Staff; Op. Qual/Personnel Admin.; Op. Qual/Surveys, Sys. & Proced.; Supp. Contracts; Personnel Liaison; Engg. Struct. Anal.; Engg. Stand.; Def. Sys.; ILS Tech. Serv.; ILS Equip. Tech. Mgmt.; ILS Verif. & Prod. Supp.; Repro. Serv.; Dist. Serv.; Engg. Elect. Dsgn.; Raves; Dsgn. Engg. Mgmt. & Staff; Thermodyn.

Pl. 36 — Caf.; Qual. Ops.; Trng. Sys. Contracts; Liaison Engg.; Repro. Serv.; CQSO Engg.

Pl. 40 — Caf.; EA-6B/EF-111A Contracts; A-6 Contracts; Thrst. Rev/Nac. Contracts; Financial Contrl. Prog.; Prog. Proc. A-6; Prog. Proc. Marine Prog.; CQSO Qual. Engg.; Repro. Serv.; Dist. Serv.; EA-6B Prog.

Pl. 50 — Wash. Office.

Pl. 56 — Maint. Admin.

Pl. 63 — GAC Israel.

Pl. 66 — Maint. Admin.; Facil.; Tool Dsgn.; Mgmt. Staff; Admin. Personnel; Finance; Proc.; Engg.; Qual. Control; Prod. Mgmt.; Mfg. Engg.

Pl. 72 — Grumm. TFTR.

Pl. 75 — Mfg. Offsite Supp.; ILS Site Mgmt.; Acft. Syst. Serv.; Supp. Equip. Serv.

Pl. 77 — Stuart Ops.

Pl. 81 — Oak Harbor, Wa.

Pl. 85 — QC Supplier.

Pl. 87 — Mfg. Tech. Prod. Serv.; Mech. Dsgn. Staff; Prod. Sftwr. M/S; Veh. Liaison Engg.; Engg. Mngrs.; ILS Pubs. Mgmt.

Pl. 88 — Field Serv.; Prod. Mod. & Test; Prog. Mgmt.; Flt. Test.

Pl. 89 — QC Supplier.

Pl. 94 — F-14 Prog. Mgmt.; Insp/Aero. Assy.

All Plants — Bus. Op. M/S; Mtl. Mgmt.; Corp. Proc. Ops.; Bus. Devel.; Mfg. Prog. Mgmt.; Mfg. Resources; Mfg. Meth.

Milestones

(Continued from page 6)

Joseph P. Fraiole, Proc. Financial Controls (30)
Lillian R. Perdue, Procurement Services (30)
Joseph V. Scotto, Prog. Proc-Mgmt. & Staff (30)
Stuart S. Powell, Inventory Plan. & Analysis (30)
Charles J. Jacob, General Commodities (30)
Harry C. Kantianis, General Commodities (30)
Donald E. Moran, Pricing & Analysis (30)
Howard Locker, Pricing & Analysis (30)
Ernest R. Simpson, Corp. Proc. Ops. Mgt/Stf. (30)
Radcliffe A. David, Technical Rqmt. (30)
Charles L. Young, Process Engg. (30)
Henry Smith, Maint-Facil. Equip. & Gen. (30)
Robert W. Goalwin, Environ. Control Des. (30)
Florine Dean, E. Coast Supplier Adm. (30)
James E. Silvia, Claims & Adjustments (30)
Kenneth Frederick, General Acct. (30)
Thomas J. Brown, Contract Term. (30)
Richard Kuhnapfel, QC Supplier (30)
Casimar J. Gromadzki, Prod. Supp. Sys. M/S (31)
William T. Pallack, ILS Log. Sys. Dev. (35)
Joseph F. Grant, ILS Reqt. Def. (35)
Joseph V. Parisi, ILS Reqt. Def. (35)
Michael W. Mangino, ILS RF/Controls (35)
Royal Scheiman, Info. Rec. and Serv. (35)
Ivan J. Deane, Power Plant Des. (35)
Chen Hsi Lee, Struct. Analy. (35)
Theodore W. DeMuno III, Safety and Maintain. (35)
Michael J. Malison Jr., Elect. Equip. Des. (35)
William P. Weaver, Opt. Display, Navig. and Cnt. Stf. (35)
Gerald H. Sandler, Prod. Software Sys. M/S (35)
Donald G. Zager, Engg. Resources (35)
Joseph W. Kucera Jr., Field Ops. (35)
Louis C. DiFrancesco, Sub-Assy. (36)
Albin J. Ettlinger, Avionics Inst. (36)
David S. Aitken Jr., Prod. Supv. (36)
Arthur J. Kemp, TS Mfg. Mech. Fab. (36)
Patsy G. Tierno, TS Mfg. Mech. Fab. (36)
Louise Kaufman, TS Mfg. Elect. Fab. (36)
Francis J. Splain, TS Mfg. M/S (36)
Aloysius T. Mulrooney, Router and Shear (37)
John F. Bagorazzi, Prog. Mgt. (40)
Frank F. Magri, ILS Elect. Pkg. (40)
George C. Backer, Cust. Supply Reqts. Mgt. (40)
John T. Horan, Reliability (40)
Sol Boles, Radar (40)
Douglas A. Frasier, Elect. Countermeasure (40)
Joseph R. Gaiso, Electromechanical Des. (40)
William H. Wright Jr., ILS Estimating (40)
Raymond A. Wood III, ILS Verif. and ILS Supp. (43)
Robert R. Schwender, Prod. Control (43)
Raymond C. Finger Jr., Prod. Rel. and Analy. (43)
Clarence M. Robinson, Mfg. Tech. (43)
Lawrence A. Castles, Maint-Rearrangement (44)
Valentine J. Toomey, Elect. Cable Fab. (44)
Willie M. Johnson, Productn. Supv. (43)
Thadeus W. Rydzewski, Invent. Mgt. (44)
Idell Phillips, Invent. Mgt. (44)
James S. Van Nostrand Jr., Ops. (66)
William J. Budd, Supp. Equip. Serv. (67)
Donald B. Richroath, Prog. Planning Cntrl. & Budg. (72)
Kenneth A. Riley, QC. Supplier (76)
William R. Eastman Jr., Tool Eng. (77)
Lawrence T. O'Brien, Supp. Equip. Serv. (80)
Eugene A. Mack, Production (88)
Henry G. Posthauer, Production (88)
Stephen J. McGullam, Production (88)
Charles Bumble Jr., Mfg. Off-Site Support (89)
Thomas J. Burns, Logistic Services (95)

GRUMMAN plane news

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